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BETRIEBSANLEITUNG UND SICHERHEITSVORSCHRIFTEN
OPERATING AND SAFETY INSTRUCTIONS
MODE D'EMPLOI ET DE SÉCURITÉ
ISTRUZIONI PER L'USO E DI SICUREZZA

CR 25 A

Ab Serie-Nr. 2500 From serie no 2500 A partir du no de série 2500 A partire dal no. di serie 2500 Handgerät zum Umreifen mit Stahlband

Hand tool for steel strapping

Appareil pour le cerclage par feuillard d'acier

Apparecchio per reggiare con reggetta d'acciaio





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	Explosion drawing	30	Strap thickness Tensile strength	0.40–0.63 mm (.015"–.024") Up to approx. 850 N/mm ²	
			rensile strength	(117'000 lbs/in²)	
			High strength	,	
			quality: Strap thickness	0.40-0.63 mm (.015"024")	
			Tensile strength	Up to approx. 1100 N/mm ²	
			CEALC	(156'000 lbs/in ²)	
			SEALS		
			Strap width 13 mm	CSP 411	
			Strap width 16 mm	CSP 511	

DECLARATION OF AGREEMENT

We take sole responsibility for declaring that the tool CR 25 A, to which this declaration refers, is in full compliance with the current requirements of the guidelines laid down by the council on 22th June 1998 (98/37/EEC), "Machine Guidelines".

According to norm:

EN 292-1, EN 292-2, EN 349, EN 983, EN 1050

prEN 792-2

CH-8953 Dietikon, February 2002

Manager

Strap width 19 mm

Manager

CSP 611

Sales & Marketing: Engineering:

M. Binder R. Kieffer

GENERAL INFORMATION

These operating instructions are intended to simplify familiarisation with the strapping tool and the possibilities of application for the intended purpose. The operating instructions contain important information concerning the safe, proper and efficient use of the strapping tool. Observation of the information will help to avoid danger, reduce repairs and stoppages and increase the reliability and service life of the strapping tool.

The operating instructions must always be available at the place of operation of the strapping tool. They must be read and observed by all persons concerned with work on the strapping tool. This work specifically includes operation, refilling of operating material, fault elimination and maintenance.

In addition to the operating instructions and the regulations for accident prevention effective in the country of use and place of application, the recognised technical regulations for safety and proper working must also be observed.



CAUTION!

Used where there is danger to life and health.



WARNING!

Used for danger which can cause material damage.



NOTE!

Used for general information and information which if not followed can cause faults in the operating sequence.

2.1 INFORMATION ON ENVIRONMENTAL PROTECTION

This tool is manufactured without any physical or chemical substances which could be dangerous to health. For disposal of all the parts, the governmental instructions must be observed.

18 01.05/WE

SAFETY INSTRUCTIONS



Inform yourself! Read the operating instructions carefully.



Protect yourself!

When operating the tool, wear eye, face and hand protection (cut-proof gloves).



Warning:

Strap will snap forward! When cutting the strap, hold the upper portion and stand safely away from the strap.

Caution:

The lower strap will snap forward.



Warning: Strap could break!

Do not stand in line with the strap while it is tensioned. The strap could break!



Caution:

Danger of squeezing! Do not put your fingers into the tension wheel area.



Caution:

Only strap packed goods!

Do not put hands or other parts of the body between the strap and the package during the strapping process.



Do not exceed the air pressure!

Do not exceed the recommended air pressure



Use safety coupling!

For connecting the air hose to the tool, use only a safety coupling



Do not use a bottled air or gas source!

Do not operate tis tool by usining a bottled air or gas source



Caution:

If work is carried out using a spring balancer, only a spring balancer that complies with the safety regulations may be used.



Original ORGAPACK seals must be used exclusively.



Original ORGAPACK spare parts must be used exclusively!

Not using original spare parts will dissolve the warranty and the liability.

Use for the intended purpose

The tool is intended for strapping round packages, bundles of sectional steel, pipes etc.

This tool was designed and manufactured for safe handling during the strapping operation.

The tool processes steel straps only.

Possible misuse

The use of plastic straps is not possible.



DESCRIPTION

4.1 DESIGN

- 1 Compressed air connection
- 2 Yellow button (Sealing)3 Green button (Tensioning)
- 4 Handle
- 5 Pressure reduzing valve 6 Compressed air motor
- 7 Tension wheel and tension plug
- 8 Base plate
- 9 Sealing jaws
- 10 Compressed air cylinder
- 11 Suspension bow

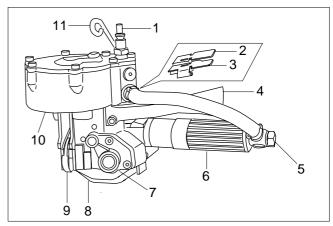


Fig. 1

4.2 FUNCTION

- Feed the strap manually through the seal (2/1).Bend the strap start (2/5).
- Tensioning by feed wheel principle (2/4).
 Sealing by notching (2/2) the seal.
 Strap cut with knife (2/3)

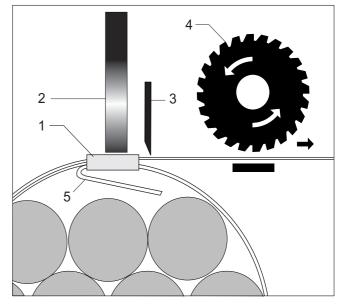


Fig. 2

INITIAL OPERATION

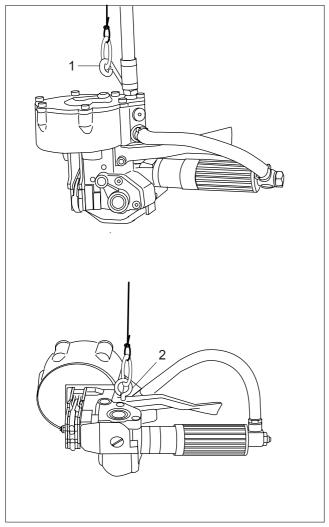


Fig. 3

5.1 SUSPENDING THE TOOL

If the tool is equipped with a suspension bow (3/1) it can be suspended on a spring balancer. By mounting an M6-eye bolt (3/2) it is possible to perform horizontal strapping.

5.2 COMPRESSED-AIR CONNECTION

Motor and sealing piston are lubricated by oil mist of the compressed air. Properly prepared compressed air is therefore essential for trouble-free operation of the tool. This can only be ensured by a reliably functioning maintenance unit, consisting of water separator, pressure reducing valve with pressure gauge and oil mist lubricator.

The oil mist lubricator should supply sufficient oil. The length of the hose between the CR 25 A and the maintenance unit should not exceed 5 m (15 ft). The internal diameter of the pipe should be at least 10 mm $(^{3}/_{8})^{4}$. It must be ensured that the hose does not form loops, where oil can collect.

OPERATING INSTUCTIONS

6.1 OPERATING THE TOOL

- Draw the strap from the dispenser, slide the strap through the seal (4/1) and wind strap around the package.
- Push the strap start a second time through the seal.

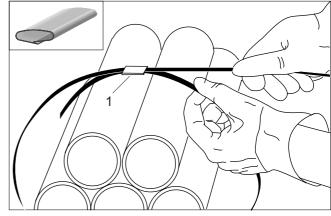


Fig. 4

- Bend the strap start (5/1) below the seal 3–4 cm (1–2").
- Pull the strap tightly by hand and take a portion of the strap leading to the dispenser with the left hand approx. 20 cm (8") away from the seal.

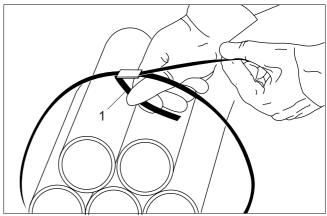


Fig. 5

- Hold the handle (6/1) of the tool in the right hand and raise the motor up to the stop.
- Insert the strap below the tension wheel completely into strap guide. At the same time push the tool forward against the seal.
- Release the motor.

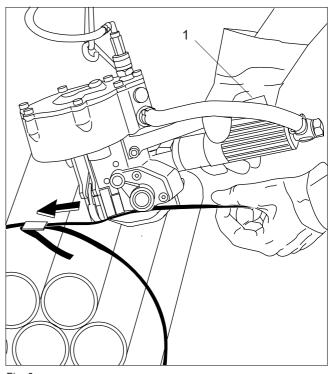


Fig. 6

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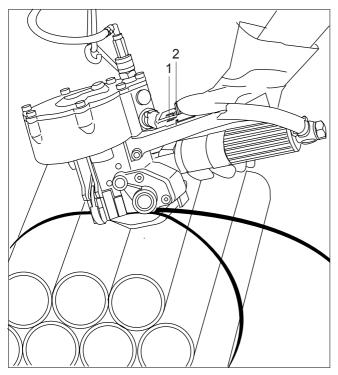


Fig. 7

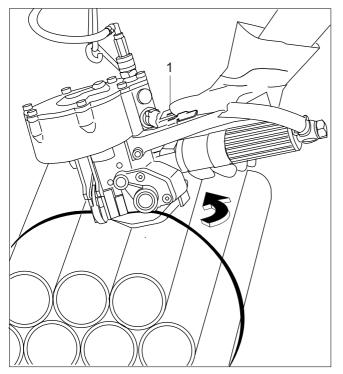


Fig. 8

Tensioning

 Press the green button completely down with the thumb of the right hand. Release green button. The strap is tensioned until the air motor stops.



The tensioning force can be infinitely adjusted (see chapter 7.1).

Interrupting the tensioning process

 Press catch (7/2) to the left, green button rises and tensioning is interrupted.

If the items to be strapped are mainly delicate products, it is recommended to remove the catch. The green button will then no longer be locked when pressed down.

Sealing

- Press the yellow button (8/1) with the right thumb until the seal is notched and the strap is cut off.
- Raise the motor to the stop and swivel the tool away from the strapping to the right at the rear.

Check of seal

To obtain the maximum seal efficiency, the notches have to be cut properly into the seal. If these notches are not correctly cut, replace jaws and notcher (see Chapter 7.5).

PREVENTIVE AND CORRECTIVE MAINTENANCE

7.1 ADJUSTING TENSIONING FORCE/ TENSIONING SPEED

- Set air pressure at pressure reducing valve of maintenance unit to 4-6 bar.
- With a screwdriver adjust pressure reducing valve (9/1) of air motor, so that the motor stops when the required tension is reached. It should be ensured that the seal is notched properly and that the strap is cut off.

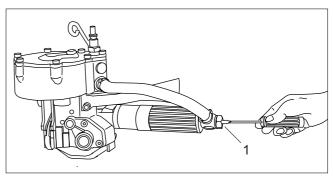


Fig. 9

7.2 SETTING CLEARENCE BETWEEN TENSION WHEEL AND TENSION PLUG

The tension wheel and the tension plug must not touch (damage the teeth). If the spacing is too great, the strap slips through before the final tension is reached.

- Disconnect tool from air supply.
- Loosen set screw (10/1).
- Set tension plug (10/2) with screwdriver, so that the clearence between tension wheel and tension plug is 0.1-0.25 mm (.0039"-.0098"). Turning clockwise decreases the clearence, turning counterclockwise increases the clearence.
- Turn tension plug so that a notch of the tension plug points in the direction of the set screw (10/1).
- Tighten set screw (10/1).
- Check clearence, reset if necessary.

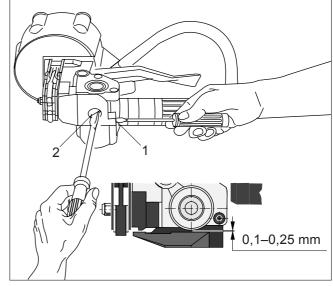


Fig. 10

7.3 REPLACING TENSION WHEEL

If the tension wheel spins before the required strap tension is reached, the tension wheel must be replaced (precondition: clearence set correctly, see chapter 7.2).

Removal

- Disconnect tool from air supply.
- Remove two cylinder screws (11/1).
- Carefully remove cover (11/2) from tension shaft.
 Remove counter washer (11/3), thrust bearing (11/4) and tension wheel (11/5). Replace tension wheel.

Installation

- Install the parts in reverse order.
- The 45°-chamfer of the tension wheel must be out-
- Secure cylinder screws (11/1) with Loctite 243.
- Set clearence between tension wheel and tension plug (see chapter 7.2).

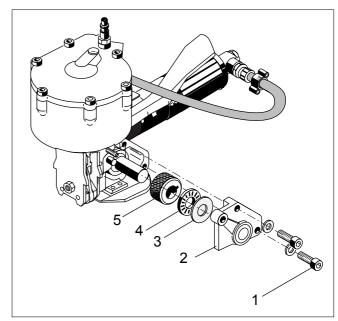


Fig. 11

24

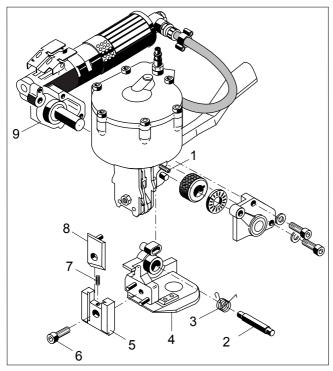


Fig. 12

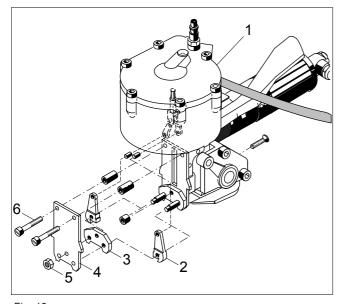


Fig. 13

7.4 REPLACING CUTTING KNIFE

Removal

- Remove tension wheel (see chapter 7.3).
- Remove gear housing (12/9) including air motor and shaft.
- With screwdriver loosen special screw (12/1).
- Remove shaft (12/2) and compression spring (12/3).
- Remove base plate (12/4).
- Remove cylinder screw (12/6).
- Remove cutter guide (12/5), remove and replace cutting knife (12/8). Observe position of spring (12/7).

Installation

- Install the parts in reverse order.
- Secure cylinder screw (12/6) and special screw (12/1) with Loctite 243.
- After installation of gear housing (12/9) hang up compression spring (12/3) with screwdriver.

7.5 REPLACING JAWS AND NOTCHER

Removal

- Connect the tool to the air supply, depress yellow button (13/1) and hold it in position.
- Disconnect the tool from air supply and release yellow button.
- Remove two special screws (13/6).
- Take down jaw unit.
- Remove lock nut (13/5).
- Remove front plate (13/4), remove and replace notcher (13/3) and jaws (13/2).

Installation

- Install the parts in reverse order.
- Secure special screws (13/6) with Loctite 243.

7.6 CLEANING THE TOOL

 The tool should be regulary cleaned. Especially the tension wheel and the jaw unit should be kept clean. The easiest way to do this, is to use compressed air and to blow out the dust (wear eye protection).

PARTS LIST 1174.200.100/11

When ordering please indicate part number and quantity * Recommended spare parts

Explosion drawing see page 28

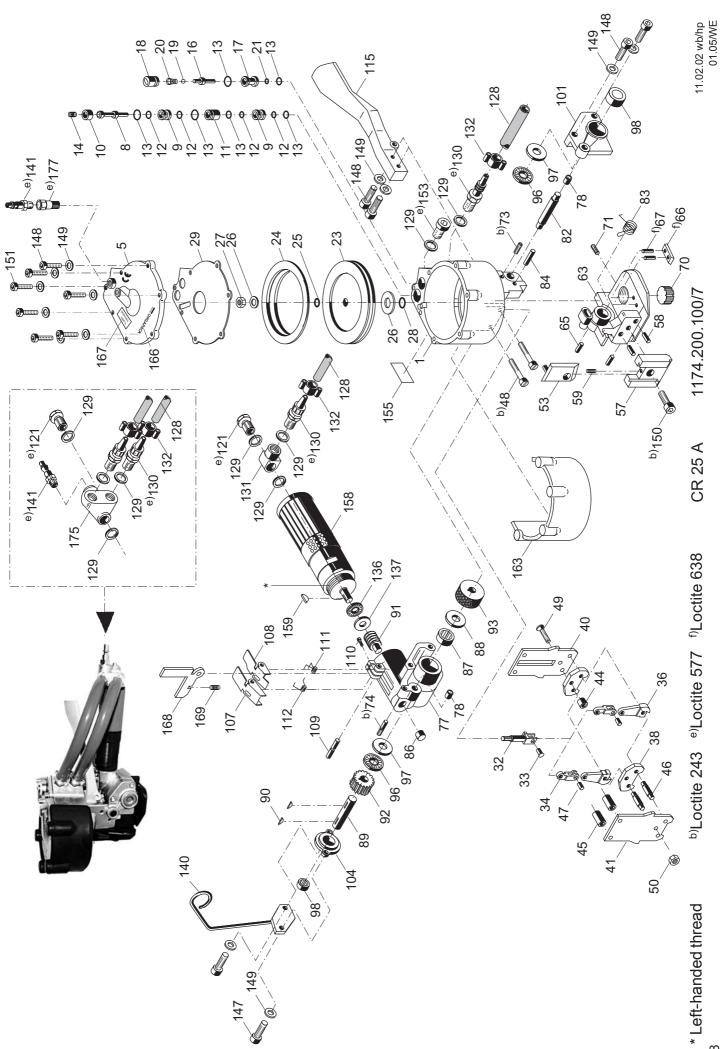
P	os.	Part no	Part name Quan	tity
Т				
	1	1174.200.115	Cylinder	1
	2		•	
	3			
	4			
	5	1174.200.114	Cylinder cover	1
_	6			
_	7	1000 100 000		
_	8	1820.100.036	Valve stem, long	1
_	9	1820.100.030	Sleeve	2
_	10	1820.100.033	Ring	1
_	11		Sleeve	1
_		1927.601.020	O-Ring, ø 10 x 2	-
_		1927.601.600	O-Ring, Ø 16.1	<u>.</u>
_	14		Compression spring	1
	15			
	16	1820.100.035	Valve stem, short	1
	17	1820.100.031	Sleeve	1
	18	1820.100.032	Sleeve	1
	19	1925.010.802	Ball	1
_				
_		1820.010.047	Compression spring conical	1
_		1927.600.420	O-Ring, ø 4 x 2	1
_	22	4474 000 400	D: 1	
_	23		Piston	1
		1928.011.050	Piston ring, ø 105 O-Ring, ø 6 x 1,5	<u>1</u>
_		1927.600.610 1820.020.261	Washer	<u>1</u>
_	27		Lock washer, M 6	1
_	28	1927.601.010	O-Ring, ø 10 x 1,5	<u>-</u>
_	29	1174.200.137	Gasket	<u></u>
_				
	30			
	31			
	32	1174.200.131	Slider	1
		1820.030.413	Bolt	1
_		1174.200.128	Link	2
*	35	1474 000		
*	36	1174.200.141	Jaw 13 mm	2
*	36	1174.200.142	Jaw 16 mm	2
_	36	1174.200.143	Jaw 19 mm	2
_	37 38	1174.200.125	Notcher 13 mm	2
_	38	1174.200.125	Notcher 16 mm	2
_	38	1174.200.120	Notcher 19 mm	2
_	39		10 111111	
_	40	1174.200.132	Plate	1
	41	1174.200.133	Front plate 13 mm	1
	41	1174.200.134	Front plate 16 mm	1
	41	1174.200.135	Front plate 19 mm	1
	42			
	43			
	44	1820.020.262	Bushing	1
_	45	1820.020.263	Bushing	2
	_			

F	os.	Part no	Part name Quan	tity
	46	1820.030.415	Bolt	2
	47	1820.030.414	Bolt	2 2 2 1
	48	1820.030.412	Special screw, M 6	2
	49	1911.905.252	Counter sunk screw, M 5 x 25	1
	50	1916.305.052	Lock nut, M 5	1
	51			1
	52			
*	53	1174.200.152	Cutter complete 13 mm	1
*	53	1174.200.124	Cutter complete 16, 19 mm	1
	54		,	
	55			
	56			
_	57	1174.200.121	Cutter guide	
_	58	1921.305.120	Straight pin, ø 5m6 x 12	
_	59	1820.010.207	Compression spring	1 2 1
_	33	1020.010.207	Compression spring	
_	60			
_	61			
_				
_	62	1171 200 150	Describts something	
_	63	1174.200.150	Base plate complete,	
		4.47.4.000.4.40	incl. pos. 64-67 13 mm	1
_	63	1174.200.148	Base plate complete,	
_			incl. pos. 64-67 16 mm	1
_	63	1174.200.149	Base plate complete,	
			incl. pos. 64-67 19 mm	1
_	64			
	65	1921.304.120	Straight pin, ø 4m6 x 12 13 mm	2
	65	1921.304.100	Straight pin, ø 4m6 x 10 16 mm	2
	65	1921.304.080	Straight pin, ø 4m6 x 8 19 mm	2
*	66	1174.200.146	Strap guide 13 mm	1
*	66	1174.200.147	Strap guide 16 mm	1
*	66	1174.200.145	Strap guide 19 mm	1
*	67	1921.902.085	Roll pin, ø 2,5 x 8	2
	68			
	69			
	70	1820.040.101	Tension plug	1
	71	1910.104.088	Set screw, M 4 x 8	1
	72			
	73	1820.030.416	Special screw, M 6	1
	74	1820.030.417	Special screw, M 6	
	75			<u> </u>
_	76			
	77	1174.200.116	Gear housing complete	1
	78	1935.510.100	Slide bearing, ø 10/12 x 10	2
_	79	1000.010.100	ondo boaring, b 10/12 x 10	
	. 0			
_	80			
_	81			
_	82	1820.030.410	Axe	1
*	83	1820.010.209	Torque spring	1
_	84	1921.804.122	Roll pin, ø 4 x 12	
_	85	1321.004.122	Λοπ ριπ, ν τ Λ τ Ζ	
_	86	1933.908.080	Needle bearing, ø 8/12 x 8	1
_	00	1900.900.000		
			01.05	5/WE

26 01.05/WE

Pos.	Part no	Part name Quant	tity
87	1933.815.120	Needle bushing, ø 15/21 x 12	1
88	1928.615.213	Gasket, ø 15/21 x 3	1
89	1820.030.411	Tension shaft	1
90		Key	1
91		Worm gear	1
92 * 02		Worm gear wheel	1
93	1820.040.100	Tension wheel	1
94			
95	1001010150	T	
96		Thrust bearing, ø 15	2 2 2
97		Counter washer, ø 15/28 x 0,8	2
98	1934.015.120	Needle bushing, ø 15/21 x 12	2
99			
100			
100	1174.200.118	Cover, left	1
101	1174.200.110	Cover, left	
102			
103	1174.200.111	Cover, right	1
105	1174.200.111	Cover, rigin	
106			
	1174.200.139	Lever, yellow	1
108		Lever, green	<u>_</u>
109		Bolt	<u>_</u>
100	1174.200.100	Doit	
110	1820.030.418	Special screw, M 4	1
* 111	1820.010.211	Torque spring	<u>_</u>
* 112		Torque spring	<u>_</u>
113	1020.010.210	reique opinig	<u> </u>
114			
115	1174.200.117	Handle	1
116			
117			
118			
119			
120			
121	1940.070.723	One-way restrictor, G 1/4"	1
121 122	1940.070.723	One-way restrictor, G 1/4"	1
121 122 123	1940.070.723	One-way restrictor, G 1/4"	1
121 122 123 124	1940.070.723	One-way restrictor, G 1/4"	1
121 122 123 124 125	1940.070.723	One-way restrictor, G 1/4"	1
121 122 123 124 125 126	1940.070.723	One-way restrictor, G 1/4"	1
121 122 123 124 125 126 127		•	
121 122 123 124 125 126 127 128	1173.400.044	Air hose	
121 122 123 124 125 126 127		•	
121 122 123 124 125 126 127 128 129	1173.400.044 1941.210.720	Air hose Gasket, G 1/4"	
121 122 123 124 125 126 127 128 129	1173.400.044 1941.210.720 1941.111.040	Air hose Gasket, G 1/4" Hose connection, G 1/4"	
121 122 123 124 125 126 127 128 129	1173.400.044 1941.210.720 1941.111.040 1941.112.720	Air hose Gasket, G 1/4" Hose connection, G 1/4" I-Connection, G 1/4"	
121 122 123 124 125 126 127 128 129	1173.400.044 1941.210.720 1941.111.040 1941.112.720	Air hose Gasket, G 1/4" Hose connection, G 1/4"	
121 122 123 124 125 126 127 128 129 130 131 132 133	1173.400.044 1941.210.720 1941.111.040 1941.112.720	Air hose Gasket, G 1/4" Hose connection, G 1/4" I-Connection, G 1/4"	
121 122 123 124 125 126 127 128 129 130 131 132 133	1173.400.044 1941.210.720 1941.111.040 1941.112.720	Air hose Gasket, G 1/4" Hose connection, G 1/4" I-Connection, G 1/4"	
121 122 123 124 125 126 127 128 129 130 131 132 133 134	1173.400.044 1941.210.720 1941.111.040 1941.112.720 1940.331.188	Air hose Gasket, G 1/4" Hose connection, G 1/4" I-Connection, G 1/4" Hose clamp, Ø 18	1 5 2 1 2
121 122 123 124 125 126 127 128 129 130 131 132 133 134 135	1173.400.044 1941.210.720 1941.111.040 1941.112.720 1940.331.188	Air hose Gasket, G 1/4" Hose connection, G 1/4" I-Connection, G 1/4" Hose clamp, Ø 18	1 5 2 1 2
121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136	1173.400.044 1941.210.720 1941.111.040 1941.112.720 1940.331.188	Air hose Gasket, G 1/4" Hose connection, G 1/4" I-Connection, G 1/4" Hose clamp, Ø 18	1 5 2 1 2
121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137	1173.400.044 1941.210.720 1941.111.040 1941.112.720 1940.331.188	Air hose Gasket, G 1/4" Hose connection, G 1/4" I-Connection, G 1/4" Hose clamp, Ø 18	1 5 2 1 2
121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136	1173.400.044 1941.210.720 1941.111.040 1941.112.720 1940.331.188	Air hose Gasket, G 1/4" Hose connection, G 1/4" I-Connection, G 1/4" Hose clamp, Ø 18	1 5 2 1 2
121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138	1173.400.044 1941.210.720 1941.111.040 1941.112.720 1940.331.188 1934.310.100 1934.430.100	Air hose Gasket, G 1/4" Hose connection, G 1/4" I-Connection, G 1/4" Hose clamp, Ø 18 Thrust bearing, Ø 10 Counter washer, Ø 10/22 x 0,8	1 5 2 1 2
121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137	1173.400.044 1941.210.720 1941.111.040 1941.112.720 1940.331.188 1934.310.100 1934.430.100	Air hose Gasket, G 1/4" Hose connection, G 1/4" I-Connection, G 1/4" Hose clamp, Ø 18 Thrust bearing, Ø 10 Counter washer, Ø 10/22 x 0,8	1 5 2 1 2
121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139	1173.400.044 1941.210.720 1941.111.040 1941.112.720 1940.331.188 1934.310.100 1934.430.100	Air hose Gasket, G 1/4" Hose connection, G 1/4" I-Connection, G 1/4" Hose clamp, Ø 18 Thrust bearing, Ø 10 Counter washer, Ø 10/22 x 0,8	1 5 2 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Pos.	Part no	Part name Quan	itity
143			
144			
145			
146			
_147	1911.005.208	Cylinder screw, M 5 x 20	2
148	1911.005.168	Cylinder screw, M 5 x 16	10
_149	1919.605.062	Lock washer, M 5	13
_150	1911.005.128	Cylinder screw, M 5 x 12	1
151	1911.005.258	Cylinder screw, M 5 x 25	1
_152			
153	1911.272.127	Locking screw, G 1/4"	1
_154			
155	1820.090.068	Oil lable	1
_156			
_157			
_158	1894.332.000	Air motor, Type LZB22 A008-50	1
159	1174.200.136	Key	1
160			
_161			
_162			
_163	1174.200.162	Cover	1
164			
_165			
166	1820.090.198	Name tag	1
_167	1820.090.172	Label "Made in Switzerland"	1
	Variation USA/	CAN	
_141		Air connector, 1/4" NPT	1
177	1820.100.017	Transition connection,	
		G 1/4"-1/4" NPT	1
	Variation with	device to fix the lever	
	1471000 17		
	1174.200.155	Handle	
<u>* 169</u>	1820.010.010	Compression spring	1
	M. 2.42		
	variation with	air connection on motor	
400	4470 400 044	A in language	
	1173.400.044	Air hose	1
	1941.210.720	Gasket, G 1/4"	2
	1941.111.040	Hose connection, G 1/4"	2 2 2
	1940.331.188	Hose clamp, ø 18	
_175	1174.200.154	Connection angle	1



PARTS LIST COMPRESSED AIR MOTOR 1894.332.000/2

When ordering please indicate part number and quantity

Explosion drawing see page 30

Pos.	Part no	Part name	Quantity
1	1894.332.011	End plate	1
2	1894.332.010	Gear housing (Rear side)	1
3	1894.332.013	Silencer	1
4	1894.332.033	Mesh screen	1
5	1894.332.002	Ball bearing	1
6	1894.332.003	Bearing plate rear	1
7	1894.332.001	Pin	2
8	1894.332.005	Cylinder	1
9	1894.332.004	Rotor	1
10	1894.332.007	Blade	5
11			
12	1894.332.009	Bearing plate front	1
13	1894.332.008	Ball bearing	1
14		-	
15	1894.332.014	Ball bearing	4
16	1894.332.015	Shaft	2
17	1894.332.016	Bearing needle	2 2 2
18	1894.332.017	Planetary wheel	2
19	1894.332.019	Planetary cage	1
20	1894.332.020	Threaded bushing	1
21	1894.332.021	Saucer spring	2
22	1894.332.022	Shaft	2
23	1894.332.024	Bearing needle	24
24	1894.332.023	Planetary wheel	2
25	1894.332.026	Planetary cage	1
26	1894.332.029	Gear housing (Front side)	1
27	1894.432.020	Gasket	1
28	1894.332.028	Front part	1